

ABSTRACT OF THE DISCLOSURE

APPARATUS AND METHOD FOR CORRECTING ERRORS GENERATED BY
A LASER WITH NON-IDEAL TUNING CHARACTERISTICS

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The present invention is an apparatus and method for correcting errors generated by a laser with non-ideal tuning characteristics, the apparatus comprises a laser having non-ideal tuning characteristics. At least three interferometers are positioned in an operable relationship to the laser, wherein a sampling interferometer and at least one
10 auxiliary interferometer correct for residual errors resulting from the laser; and wherein a measurement interferometer makes a measurement. A signal acquisition system is positioned in an operable relationship to each interferometer and a processor is positioned in an operable relationship to the signal acquisition system.